

The

On Cost, On Schedule, Built for the Next 50 Years...



# Renovator

A Newsletter from the Pentagon Renovation & Construction Program Office  
February - March 2006

## PENREN RECOGNIZED FOR GREEN BUILDING REMOTE DELIVERY FACILITY EARNS LEED™ CERTIFICATION



The Pentagon Renovation and Construction Program Office celebrated another significant achievement in sustainable design and construction. In November 2005, the Pentagon's Remote Delivery Facility (RDF) earned a respected Leadership in Energy and Environmental Design (LEED™) certification from the U.S. Green Build Council. PENREN has earned three of the six DoD wide LEED™ certified facilities.

The 242,500 square foot facility performs a variety of operations including screening all receivables and serving as the cen-

**CONTINUED ON PAGE 4**



Remote Delivery Facility (RDF) features a roof with vegetation. In November 2005, the RDF became PENREN's third LEED™ certified construction project.

PENREN is charged with transforming the 63-year old headquarters of the U.S. military into a modern, flexible and efficient work environment. PENREN's core mission is to provide the Pentagon Reservation with optimum Facilities and Information Technology through renovation, construction, and modernization. PENREN's award-winning acquisition approach and program management strategy have led to successful completion of several projects in addition to the original renovation work.

### INSIDE

Project Updates  
and  
Photos



The Metro Entrance Facility (MEF) features an energy efficient roof. In December 2002, the MEF became PENREN's first LEED™ certified renovation project.



The Pentagon Athletic Center (PAC) court used for basketball, volleyball, and badminton activities. In August 2004, the PAC became PENREN's second LEED™ certified project.



# PENTAGON RENOVATION PROJECT WATCH

*Images and Updates on Pentagon Renovation & Construction Projects*

*Visit the PENREN Web site for more detailed project information - <http://renovation.pentagon.mil>*

## Wedges 2-5 Renovation

**Wedges 2-5 encompass 4.5 million square feet of Pentagon space to be renovated by 2010.**

On January 9, 2006, tenant buildout began for Wedge 3, Phase 1. Work is progressing ahead of schedule on all five floors. Several Corridor 7 telecommunication closets, from the second to fifth floors are ready for equipment rack installation. Select bathrooms are completed or near completion. Telecommunication and electrical closets are approximately 80% complete. In December 2005, Wedge 3, Phase 2 soft demolition began and is underway throughout all floors of the A and B rings. Currently, demolition and abatement is in progress on the fourth floor, A and B rings. Demolition for C, D and E rings began in early February.



Workers lay out a conduit run in Wedge 3.



In Wedge 3, workers remove plaster from ceiling beams.



An electrician installs conduits out of an electrical panel.



Workers begin demolition for a Corridor 8, space recently vacated by tenants.



## PENTAGON RENOVATION PROJECT WATCH (cont.)

### Pentagon Library and Conference Center (PLC2)

**PENREN is renovating the old Pentagon Athletic Center into a new full-service conference center. The facility will also be the new home of the Pentagon Library.**

PLC2 interior work is progressing rapidly. Already, a great portion of the drywall has been installed and flooring is scheduled for on site delivery. The entry pavilion trusses are set and soil is being placed on the River Terrace. Corridor 8 waterproofing is complete and work for the sidewalk pour is underway. Construction for PLC2 is expected to be completed June 2006.



Workers place Corridor 8 concrete.



Worker installs steel joist on the PLC2 entry pavilion roof.



Placement of soil on PLC2's south planter.



Placement of insulation at Corridor 8.



# PENREN RECOGNIZED FOR GREEN BUILDING

CONTINUED FROM PAGE 1

ter for recyclable and trash collection. Additionally, the RDF serves as a facilities hub for the Pentagon. Its sustainable construction and design offers security, visual and thermal protection. The facility is both functional from an operational perspective as well as aesthetically appealing.

The RDF's LEED™ certification serves as an industry-wide recognition among building professionals. This designation signals that the Pentagon supports standards for high performance construction and renovation practices. Moreover, Pentagon tenants benefit from sustainable design because it enhances both indoor environmental quality and external environmental effects. Furthermore, LEED™ standards help to create a facility that is functional, durable, maintainable, flexible and safe. It also contributes to a healthy indoor environment. For example, the RDF's HVAC system maintains positive indoor environmental quality according to program requirements. The system fosters enhanced productivity for Pentagon tenants through the use of sustainable materials and good ventilation.

PENREN's Sustainability & Environment Integrated Product Team (SE IPT) manages the program's adherence to LEED™ standards. The team leads the efforts to further PENREN's goal to achieve 100% LEED™ for all Pentagon renovation projects. The RDF demonstrates their success with advocating the

use of sustainable materials for Pentagon renovation and construction projects.

The RDF features a 90% vegetated roof that manages storm water uptake. Earthworms were used to naturally aerate the rooftop soil. The bermed walls flanking the facility and its concrete construction provide thermal mass. Also, the facility's green roof systems provides better thermal resistance. The RDF is also equipped with an energy-efficient HVAC system with permanent temperature, humidity and CO2 monitoring. The use of water-efficient landscaping and plumbing fixtures significantly reduces the facility's water consumption. Other sustainable materials used for the facility include the use of low-emitting paints, carpet, adhesives, sealants, recycled content steel, fly ash mixed in concrete, composite wheat board for millwork panels and 100% post consumer recycled plastic for toilet partitions and wall guards.

Additionally, the RDF operates a construction waste recycling program and serves as a centralized location for recycling collection and processing. It also offers containment storage for compliant hazardous material. Overall, the RDF's sustainable building features are best illustrated with the use of materials, thermal comfort, storm water and landscape management.

## WE WANT YOUR FEEDBACK!

E-mail your questions or comments

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